PATENT COOPERATION TREATY



PCT

Translation

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1937/PCT	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/41									
International application No. PCT/CH2003/000240	International filing date (day/month/year) Priority date (day/month/year)									
International Patent Classification (IPC) or r A61F 2/44	1 A A AUDI 2003 (1 1 0/1 2002) (
Applicant N	ATHYS MEDIZINALTECHNIK AG									
2. This REPORT consists of a total of6 sheets, including this cover sheet.										
This report is also accompanie amended and are the basis for 70.16 and Section 607 of the A	ed by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been this report and/or sheets containing rectifications made before this Authority (see Rule Administrative Instructions under the PCT).									
These annexes consist of a tota										
3. This report contains indications relating to the following items: I Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability										
						IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;				
						VII Certain defects in the international application				
VIII Certain observations on the international application										
te of submission of the demand	Date of completion of this report									
20 September 2004 (20.09.2	28 April 2005 (28.04.2005)									
me and mailing address of the IPEA/EP	Authorized officer									
simile No.										

International application No.

I. Basis of t	the report	PCT/CH2003/000240
1. With rega	rd to the elements of the international application:*	
the	international application as originally filed	
	description:	
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This rep beyond Replacement son this report and 70.17).	the description, pages the claims, Nos the drawings, sheets/fig ort has been established as if (some of) the amendments had not been made the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).* theets which have been furnished to the receiving Office in response to an in as "originally filed" and are not annexed to this report since they do	evitation under Article 14 are referred to
	nt sheet containing such amendments must be referred to under item 1 and at 109 (Box I) (July 1998)	nnexed to this report.

International application No.

PCT/CH2003/000240

III. Nor	1-establishment of entirion with war at the second of the
1. The	n-establishment of opinion with regard to novelty, inventive step and industrial applicability
indu	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be strially applicable have not been examined in respect of:
	the entire international application.
	claims Nos
becau	
\boxtimes	the said international application, or the said claims Nos
S	ee supplemental box
	the description, claims or drawings (indicate particular elements below) or said claims Nos.
	are so unclear that no meaningful opinion could be formed (specify):
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¹	the claims, or said claims Nos.
'	by the description that no meaningful opinion could be formed.
N 1	no international search report has been established for said claims Nos
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t t	e listing to comply with the standard provided for in Annex C of the Administrative Instructions:
	he written form has not been furnished or does not comply with the standard.
~	he computer readable form has not been furnished or does not comply with the standard.
n PCT/I	PEA/409 (Box III) (July 1998)
O 1/L	- Septon (Dov III) (JIII) 1998)

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: III.1

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 15 of the present application defines a method for fixing an implant inside an intervertebral space. This method represents a method for the treatment of the human body by surgery within the meaning of PCT Rule 67.1(iv). Consequently, no examination was carried out for these claims (PCT Article 34(4)(a)(i)).

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Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	1-14	YES
		Claims		NO
	Inventive step (IS)	Claims	1-14	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-14	YES
		Claims		NO
2.	Citations and explanations			

Citations and explanations

Reference is made to the following document:

D1: US-A1-2002/138142 (NICHOLS DAVID ET AL) 26 September 2002 (2002-09-26).

Document D1 is considered to be the closest prior art for the subject matter of claim 1. D1 discloses (the references in parentheses are to D1):

an intervertebral implant comprising two anchoring means (end caps, paragraph 44) for fixing said intervertebral implant to the end plates of a vertebra.

Each anchoring means comprises (see D1, paragraph 35 and figure 6)

- an anchoring part (640) which comprises a central axis (A) and two end faces extending transversely to the central axis (A),
- a plurality of spikes (652) projecting from one end face,
- a through cavity (646) extending parallel to the central axis, and

fixing means (644a, 644b) by means of which the anchoring part can be detachably locked to the intervertebral implant.

The subject matter of claim 1 differs therefore from the known intervertebral implant in that

the intervertebral implant comprises at each end a terminal plate which intersects the central axis, and in that the terminal plates can be guided through the cavity of the respective anchoring parts.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem addressed by the present invention can therefore be considered that of obtaining an intervertebral implant in which the anchoring means can be pressed in a simple manner into the end plates of the vertebra only after the implant has been introduced into the intervertebral space.

The subject matter of claim 1 solves this problem in that the anchoring means can be pushed upwards and downwards against the end plates of the vertebra from the centre of the (e.g., cylindrical) implant after implantation. The anchoring means are directly accessible from the outside.

This solution is neither disclosed nor suggested by the documents cited in the international search report, and therefore claim 1 complies with the requirements of PCT Article 33(2).

Claims 2-14 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.

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Observations:

The two-part form of claim 1 does not take proper account of the prior art (D1) in accordance with PCT Rule 6.3(b).

The description does not cite document D1 or indicate the relevant prior art disclosed therein (PCT Rule 5.1(a)(ii)).